

# Writing for Success on the GED® Test

Information, Resources, and Strategies for the Classroom

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#### Wegman's unseats Trader Joe's as best grocery store in the U.S.

A large-scale consumer study says there's a new favorite grocery store in America – and it's one New Jerseyans know well. Wegman's the populate supermarket chain that operates seven locations in the state, came out on top of a new study by Market Force that surveyed 10,000 consumers about their experiences at the country's largest chains. The Rochester, New York-based chain unseated Trader Joe's as the reigning leader of the survey this year. Trader Joe's had topped the list for four years.

Wegman's didn't earn enough votes to land on last year's list drew twice as many when the online survey went out this February. The survey quizzed shoppers in four different U.S. census regions on a range of topics, including checkout speed, friendliness of employees, and the likelihood customers would recommend the store to others, to compile an overall composite loyalty index.

The study said family-owned Wegmans stood out among consumers for its large stores, employee training, fresh produce, reasonable prices, and customer experience that "creates super fans" of the brand.

# What - Why - How

WHAT	WHY	HOW
This is the claim	These are the reasons	This is your
Wegman's is the best grocery store in the U.S.	Large store	evidence or example
	Employee training	
	Fresh produce	
	Reasonable price	
	Customer experience	

# **Multi-Dimensional Scoring Rubric for RLA**

**Trait 1: Creation of Arguments and Use of Evidence** 

Score	Description
Trait 1:	Creation of Arguments and Use of Evidence
2	<ul> <li>generates text-based argument(s) and establishes a purpose that is connected to the prompt</li> <li>cites relevant and specific evidence from source text(s) to support argument (may include few irrelevant pieces of evidence or unsupported claims)</li> <li>analyzes the issue and/or evaluates the validity of the argumentation within the source texts (e.g., distinguishes between supported and unsupported claims, makes reasonable inferences about underlying premises or assumptions, identifies fallacious reasoning, evaluates the credibility of sources, etc.)</li> </ul>
1	<ul> <li>generates an argument and demonstrates some connection to the prompt</li> <li>cites some evidence from source text(s) to support argument (may include a mix of relevant and irrelevant citations or a mix of textual and non-textual references)</li> <li>partially analyzes the issue and/or evaluates the validity of the argumentation within the source texts; may be simplistic, limited, or inaccurate</li> </ul>
0	<ul> <li>may attempt to create an argument OR lacks purpose or connection to the prompt OR does neither</li> <li>cites minimal or no evidence from source text(s) (sections of text may be copied from source)</li> <li>minimally analyzes the issue and/or evaluates the validity of the argumentation within the source texts; may completely lack analysis or demonstrate minimal or no understanding of the given argument(s)</li> </ul>

#### Non-scorable Responses (Score of 0/Condition Codes)

Response exclusively contains text copied from source text(s) or prompt

Response shows no evidence that test-taker has read the prompt or is off-topic

Response is incomprehensible

Response is not in English

Response has not been attempted (blank)

Trait 2: Development of Ideas and Organizational Structure

Score	Description
Trait 2:	Development of Ideas and Organizational Structure
2	<ul> <li>contains ideas that are well developed and generally logical; most ideas are elaborated upon</li> <li>contains a sensible progression of ideas with clear connections between details and main points</li> <li>establishes an organizational structure that conveys the message and purpose of the response; applies transitional devices appropriately</li> <li>establishes and maintains a formal style and appropriate tone that demonstrate awareness of the audience and purpose of the task</li> <li>chooses specific words to express ideas clearly</li> </ul>
1	<ul> <li>contains ideas that are inconsistently developed and/or may reflect simplistic or vague reasoning; some ideas are elaborated upon</li> <li>demonstrates some evidence of a progression of ideas, but details may be disjointed or lacking connection to main ideas</li> <li>establishes an organization structure that may inconsistently group ideas or is partially effective at conveying the message of the task; uses transitional devices inconsistently</li> <li>may inconsistently maintain a formal style and appropriate tone to demonstrate an awareness of the audience and purpose of the task</li> <li>may occasionally misuse words and/or choose words that express ideas in vague terms</li> </ul>
0	<ul> <li>contains ideas that are insufficiently or illogically developed, with minimal or no elaboration on main ideas</li> <li>contains an unclear or no progression of ideas; details may be absent or irrelevant to the main ideas</li> <li>establishes an ineffective or no discernable organizational structure; does not apply transitional devices, or does so inappropriately</li> <li>uses an informal style and/or inappropriate tone that demonstrates limited or no awareness of audience and purpose</li> <li>may frequently misuse words, overuse slang or express ideas in a vague or repetitious manner</li> </ul>

**Trait 3: Clarity and Command of Standard English Conventions** 

	Clarity and Command of Standard English Conventions
Score	Description
Trait 3:	Clarity and Command of Standard English Conventions
2	<ul> <li>demonstrates largely correct sentence structure and a general fluency that enhances clarity with specific regard to the following skills: <ol> <li>varied sentence structure within a paragraph or paragraphs</li> <li>correct subordination, coordination and parallelism</li> <li>avoidance of wordiness and awkward sentence structures</li> <li>usage of transitional words, conjunctive adverbs and other words that support logic and clarity</li> <li>avoidance of run-on sentences, fused sentences, or sentence fragments</li> <li>demonstrates competent application of conventions with specific regard to the following skills:</li> <li>frequently confused words and homonyms, including contractions</li> <li>subject-verb agreement</li> <li>pronoun usage, including pronoun antecedent agreement, unclear pronoun references, and pronoun case</li> <li>placement of modifiers and correct word order</li> <li>capitalization (e.g., proper nouns, titles, and beginnings of sentences)</li> <li>use of apostrophes with possessive nouns</li> <li>use of punctuation (e.g., commas in a series or in appositives and other non-essential elements, end marks, and appropriate punctuation for clause</li> </ol> </li></ul>
1	<ul> <li>separation)</li> <li>may contain some errors in mechanics and conventions, but they do not interfere with comprehension; overall, standard usage is at a level appropriate for on-demand draft writing.</li> <li>demonstrates inconsistent sentence structure; may contain some repetitive,</li> </ul>
	<ul> <li>choppy, rambling, or awkward sentences that may detract from clarity; demonstrates inconsistent control over skills 1-5 as listed in the first bullet under Trait 3, Score Point 3 above</li> <li>demonstrates inconsistent control of basic conventions with specific regard to skills 1 – 7 as listed in the second bullet under Trait 3, Score Point 3 above</li> <li>may contain frequent errors in mechanics and conventions that occasionally interfere with comprehension; standard usage is at a minimally acceptable level of appropriateness for on-demand draft writing.</li> </ul>
0	<ul> <li>demonstrates consistently flawed sentence structure such that meaning may be obscured; demonstrates minimal control over skills 1-5 as listed in the first bullet under Trait 3, Score Point 3 above</li> <li>demonstrates minimal control of basic conventions with specific regard to skills 1 – 7 as listed in the second bullet under Trait 3, Score Point 3 above</li> <li>contains severe and frequent errors in mechanics and conventions that interfere with comprehension; overall, standard usage is at an unacceptable level for on-demand draft writing.</li> <li>OR</li> <li>response is insufficient to demonstrate level of mastery over conventions and</li> </ul>
*Dagguer	USAGE  a test-takers will be given only 45 minutes to complete Extended Response tasks, there is n

<sup>\*</sup>Because test-takers will be given only 45 minutes to complete Extended Response tasks, there is no expectation that a response should be completely free of conventions or usage errors to receive a score of 3.

# From Struggling to Successful

	Struggling Writers	Successful Writers
Plan	<ul> <li>Are unaware of purpose or process of writing</li> <li>Have little or no knowledge of the text structure of an essay</li> <li>Have difficulty developing plans and staying focused on the topic</li> <li>Experience greater writing anxiety and decreased motivation</li> </ul>	<ul> <li>Analyze the task</li> <li>Understand and apply all the elements of an essay</li> <li>Create goals for their writing</li> <li>Develop plans to achieve their goals</li> <li>Discuss how and why a plan will work</li> </ul>
Organize	<ul><li>Produce fewer ideas</li><li>Fail to organize their thoughts</li></ul>	<ul><li>Develop multiple ideas</li><li>Organize their ideas</li></ul>
Draft/write	<ul> <li>Plan what they are going to say as they write</li> <li>Use imprecise and nonspecific vocabulary</li> <li>Struggle to convey their thoughts, ideas, and opinions</li> <li>Write fewer sentences</li> <li>Focus on mechanics rather than on clarity and organization</li> </ul>	<ul> <li>Write using an organized plan, but adjust goals when obstacles arise</li> <li>Use vocabulary accurately</li> <li>Experience fewer difficulties with the elements of an essay</li> <li>Generate sentences that support their ideas</li> </ul>
Edit and Revise	<ul> <li>Experience problems with grammar, punctuation, and spelling</li> <li>Place words and letters too close or too far from each other</li> <li>Do not review and make correction</li> </ul>	<ul> <li>Edit spelling, capitalization, and punctuation</li> <li>Make more content revisions</li> <li>Correct overall appearance</li> </ul>

The IRIS Center Vanderbilt Peabody College

#### 2014 GED® Test RLA – Sample Stimulus Material

"Taxation and Revenue" - Test Bank Item 18101, Stimulus and Prompt

Press Release from the Office of U.S Representative Melody Walls United States House of Representatives, Washington, DC

Representative Walls Announces Economic Boost for 12<sup>th</sup> District July 17, 2013

Washington, DC – Representative Melody Walls announced that Congress passed the highway and transit bill today.

"This bill funds the expansion of Highway 17 from a two-lane highway to a four-lane thoroughfare. It will positively affect the town of Oak Falls," Walls said. As part of the expansion, Highway 17 will move two miles east of the town of Oak Falls. The bill will ease traffic congestion and create job opportunities during and after construction.

Last year, Representative Walls held town hall meetings to gather opinions from her constituents about revitalizing the economy in the 12<sup>th</sup> District. Two years ago, Turnaround Motors and Bell Camera closed their factory doors. The result has been high unemployment with no immediate prospects for new businesses. Representative Walls heard residents' concerns for jobs in the district.

Improving the highway means jobs for local construction workers. Once completed, the highway will bring more long-distance travelers into the area. Some officials anticipate a 30% increase in highway traffic due to the ease of traveling on the improved Highway 17. An increase in travelers will attract national motel and restaurant chains along the highway route. These national businesses will mean permanent jobs for residents.

In the future, historical features in Oak Falls and Gaston, such as brick streets built by early settlers and the old wheat mill, will likely become popular tourist attractions. More visitors will increase business for local shops and restaurants.

The improved highway will eliminate eighteen-wheeler traffic through towns, a major source of traffic congestion and noise. A 2001 study in Texas showed that bypasses reduce traffic through towns by as much as 75%. Eliminating eighteen-wheeler traffic will also reduce road maintenance costs.

The improvement of Highway 17, funded by federal tax allocations, is an important investment in the area.

#### Oak Falls Gazette Letter to the Editor

I am a small-business owner living in Representative Walls's congressional district. A bill has been passed to expand Highway 17 from a two-lane highway to a four-lane thoroughfare. This change includes plans to move Highway 17 two miles to the east, which means it will now bypass our town completely. I find this unacceptable.

The *Gazette* reports that because Highway 17 runs through six states, construction will be paid for with federal road funds. That means some of our federal taxes will pay for a road that I believe will harm our town. I also believe that few residents of Oak Falls will use the road. Our town and district will lose money as a result of this highway bypass paid for by our tax dollars.

The road construction jobs are only a temporary bandage on the wound made by our two manufacturers closing their doors. Once the road construction is finished, only minimum wage jobs will remain.

In fact, the highway will bypass four cities in our district alone. Each of these towns will lose business because fewer travelers will pass through them and eat, stay overnight, or purchase gas. There is no guarantee that tourists will drive an extra two miles into our town if national chain motels and restaurants are built at the highway exits. The 2001 study Representative Walls references does show that bypasses reduce traffic and noise in towns, but the study also shows they have a negative impact on local businesses.

If this project were paid for with state tax money alone, angry voters would have struck it down. Representative Walls held town hall meetings to hear residents' opinions about the local economy, but obviously she did not listen to the concerns they voiced. Please consider local concerns about this federal project.

#### Prompt:

Analyze the arguments presented in the press release and the letter to the editor.

In your response, develop an argument in which you explain how one position is better supported than the other. Incorporate relevant and specific evidence from both sources to support your argument.

Remember, the better-argued position is not necessarily the position with which you agree. This task should take approximately 45 minutes to complete.

#### Sample Response 1

The Press Release from the office of U.S. Representative Melody Walls has many could intentions, they want to make Highway 17 a four-lane highway instead of the two-lane highway it is now. Ms. Walls believes it will ease traffic congestion and create new job opportunities during and after construction. She also believes the highway will bring in more traffic due to the new four-lane highway and a increase in travelers from around the state, this will attract more hotels and restaurants which will give people permanent jobs. Another point she brought up was how the highway will help eighteen-wheeler traffic in the towns, it will cut down the noise and the amount of traffic. This new highway will also save the town money in the long run because they won't have to be spending money on repairing roads and they can use the saved money on other expenses the town needs. In all of this new proposed idea I think it would be best for the town to allow the new highway to be built for the people and the economy of the towns near the highway. If they were to build this, they would bring in way more jobs than they already have. It would greatly improve the economy, it would give the people a chance to find a job close to home and give them a steady income, they would not have to worry about losing their jobs because there would be so much traffic going by that the new business would always be busy with truckers, commuters and tourists and this meens more money for the business and the workers.

The letter to the editor had a lot of issues with this new four-lane highway. The person that wrote this letter stressed that the new highway would totally bypass there town and they would lose business because of this. The letter also stressed that yes the highway will bring in new jobs but the high paying jobs will be temporary and the minimum wage jobs will be permanent, which concludes that there towns economy will take a big hit over the years. Lastly, the letter stressed that the tax payers would be paying for this highway and it won't even benefit them as much as the other towns and cities around the area. In all, both of these have pros and cons, but they should do whats best for the group and that would be to pay for the highway to be built. It would bring in more jobs for the people in the surrounding areas and the towns that won't really benefit might just have to think about changing jobs so they can be employed for years to

much as the other towns and cities around the area. In all, both of these have pros and cons, but they should do whats best for the group and that would be to pay for the highway to be built. It would bring in more jobs for the people in the surrounding areas and the towns that won't really benefit might just have to think about changing jobs so they can be employed for years to come.

How would you describe this response?

What are its strengths?

What are its weaknesses?

#### Annotation for Response 2, Trait 1: Score Point 0

- This response includes summaries of the source texts with commentary on the topic that serves as a minimal level of analysis.
- The writer attempts to build an argument in favor of building the highway: "they should do whats best for the group...to pay for the highway to be built." The writer includes information from the text, but this is summary and not evidence to support the argument.
- Although the writer takes a stand on the issue at hand, it is not based on the strength of the arguments for the two positions.
- The last sentences of the response contain minimal amounts of analysis of the letter to the editor.
- Overall, the response earns a score of 0 for Trait 1.

#### **Both Sides Now**

When reading argumentative non-fiction text, materials often present one side or viewpoint on a particular issue. Sometimes, the text may provide evidence to support both sides. Then, it is up to the reader to determine which is best supported. Analyzing and evaluating the evidence for both sides is one way to identify a claim and the reasons for making a specific decision/claim.

	<b>Both Sides Now</b>	
Evidence that Supports		Evidence that Opposes
	Question or statement	
	Which position is better supported?	
Decision (Claim)		
Reasons (Analysis/Evaluat	ion)	

#### Sample Response 2

I believe that Highway 17 should be expanded from a two lane highway to a fourlane highway due to the better support it has. There are many benefits of extending the highway and although it may seem negative at times, we need to look at the broader picture as well as some specifics. Overall, expanding the Highway will create new jobs in communities, therefore helping economically, and also will help decrease traffic congestion.

With an increase in unemployment in the 12<sup>th</sup> district after two major factoires closed down, there is little hopes for new businesses to arise as well as for the unemployed to recieve jobs. With a need to improve highways, jobs will be created as construction workers. this wll therefore help the community get back on its feet and to help the community's economy. Some of the road construction jobs which are created while creating the road may be temporary, however there is room for premenant positions. Roads always will need upkeep and tiding up, which is why some will need to stick around to do the job after the creation of the road.

With roads being completed, this will allow more tourists to come visit the area. It will now be easier for people to travel from far distances and there will be an increase of travelers. This will bring money to the area tremendously, benefiting restaurants and motels as well as the old wheat mill for tourism. This will then allow people who work at those places to spend their money they are making within thir community to help everyone living in it. These businesses also will be doing well, perhaps expanding and hiring more workers. This will mean permanent jobs for residents.

Eighteen-wheeler traffic in towns will be eliminated through towns. Noise will become a minimal issue as well as traffic congestion. It will also reduce road maintenance costs, which will help the city economically.

Although the expansion of Highway 17, federal taxes will be used to pay for the road. This will not have a direct effect on solely one community. Money will be used, given by the government which would come from everyone living in the United States.

Although the new highway will bypass four cities in the district, there is still a lot of room for advertisement. Travelers will be able to easily get to the four cities by the highway and come from longer distances. Although there is no guarentee tourists won't stop in the city, with adertising and networking with national motels and restaurants, they may be able to suggest ones in the four cities.

Overall there seems to be stronger evidence that building the new highway will help communities and decrease traffic congestion.

#### **Annotations**

#### **Trait 1: Score Point 1**

The response includes an argument for the expansion of the highway (Overall, expanding the highway will create new jobs...helping economically, and also will help decrease traffic congestion). The writer supports these two reasons (help communities and decrease traffic congestion) by referencing portions from the source text that discuss those topics and then analyzing the argumentation. To support the reason for the expansion, the writer proposes solutions to the problems from the opposing view (Although the new highway will bypass four cities, there is still room for advertisement). The writer needs more specific evidence from the text and more analysis. Overall, this response is simplistic and limited and therefore earns a score of 1 for Trait 1.

#### **Trait 2: Score Point 1**

The response begins with a statement of the writer's argument (*I believe that the Highway 17 should be expanded...due to the better support it has*), but without specific reference to either of the passages. In fact, the writer does not mention either Rep. Walls or Alice Jenkins in the response. Following the introduction, the response is organized into paragraphs, each of which addresses an aspect of the topic under consideration. Within the paragraphs, there is some elaboration of ideas and some use of transitional devices (*This will then allow...*). However, overall the structure does not present the opposing positions clearly or specifically, making the response only partially effective at conveying the writer's message. Therefore, this response 5 earns a score of 1 for Trait 2.

#### **Trait 3: Score Point 1**

The response contains multiple instances of run-on sentences (*Some of the road construction jobs which are created while creating the road may be temporary, however there is room for premenant positions*), comma errors, sentence fragments, confusing pronoun-antecedent references, and problems with parallelism that occasionally interfere with the writer's meaning. The writer has used some variety in sentence structure, but there are awkward sentences that are difficult to understand (*Although there is no guarentee tourists won't stop in the city, with adertising and networking with national motels and restaurants, they may be able to suggest ones in the four cities*). Standard usage is at a minimally acceptable level of appropriateness for on-demand draft writing. Therefore, this response earns a score of 1 for Trait 3.

# **Short Answers in Science**

#### **Type 1 - Narrative Based Short Answer Question**

Tropical rain forests contain diverse communities of organisms with many interesting relationships. One such relationship connects parasitic fungi and their insect hosts. A type of parasitic fungus, call *Ophiocordyceps unilateralis*, disperses spores on the forest floor, but cannot successfully grow on the ground. The fungus requires specific conditions and must grow inside a specific ant species, called the host, to reproduce. The ants, various species of carpenter ant, make nests in the trees.

O. unilateralis feeds on and grows inside the insect host, and within a few days the fungus affects the insect's brain. The insect exhibits unusual behaviors such as wandering away from the colony to where the light and humidity favor fungal growth. Just before dying the insect bites into and firmly attaches itself to a plant. The, the fungus slowly grows outward from the dead insect's head, producing a pod of spores that eventually bursts open. The spores fall to the ground, restarting the life cycle of the fungus.

Thought this relationship may sound gruesome, researchers note that these parasitic fungi may help maintain biodiversity in the tropical rain forest. Some parasitic fungi may be host-specific, meaning that a fungus species only infects a particular type of insect. Scientists have observed that if an insect population begins to grow, more fungal infections occur, and then insect population levels off again. This relationship may prevent an overpopulation of the habitat by any one insect species.

Deforestation, or clearing away trees, is occurring in tropical rain forests.

Explain how deforestation could disrupt the life cycle of *Ophiocordyceps unilateralis* in tropical rain forest. Include multiple pieces of evidence from the text to support your response.

Type your response in the box. This task may require approximately 10 minutes to complete.

#### **Science Narrative Response - Analyze the Prompt**

Underline the verb. Determine action to be completed. Complete the chart.

Do	What

#### **Science Narrative Response - Analyze the Source Text**

Reminder – List key words from the prompt.	
Identify relationships within the text.	
Identify evidence that supports the claim made in the text.	

#### **Check Your Response**

#### Sample Response

O unilateralis is a parasitic fungus that feeds on carpenter ants. Carpenter ants make their nests in tall trees in the tropical rain forest. O unilateralis require the right light and humidity to produce spores. Located high in the trees, the ants provide the right environment for the fungus. Deforestation would rob the fungus of its food and environment, thus endangering the fungus. Without O unilateralis carpenter ant populations would go unchecked creating further problems for the ecosystem.

What do you think of the response? Is it a ...

#### 3-Point Response

- Clear, well-developed explanation
- Complete support from the passage

#### 2-Point Response

- Adequate or partial explanation
- Partial support from the passage

#### 1-Point Response

- Minimal or implied explanation
- Minimal or implied support

#### 0-Point Response

- No explanation
- No support from the passage

#### Type 2 – Experimental Design Short Answer Response

#### Stimulus Material

A farmer purchased 30 acres of farmland. The farmer calculated that the average topsoil thickness on the farmland is about 20 centimeters.

The farmer wants to maintain the thickness of the soil on this farmland by reducing erosion. The farmer plans to test the effectiveness of two different farming methods for reducing soil erosion.

Method 1: No-till (planting crops without plowing the soil)

Method 2: Winter cover crop (growing plants during the winter that are plowed into the soil in spring)

The farmer hypothesizes that using either method will reduce erosion compared to using traditional farming methods (plowing and no cover crop).

#### **Prompt**

Design a controlled experiment that the farmer can use to test this hypothesis. Include descriptions of data collection and how the farmer will determine whether his hypothesis is correct.

Type your response in the box. This task may require approximately 10 minutes to complete.

# **Preparing the Response**

Steps in Scientific Method	What text tells you
Observe	Topsoil is about 20 centimeters in thickness.
	Farmer knows two method to reduce soil erosion
	1) Not till
	2) Winter cover crop
	3)
Hypothesize	Believes either method 1 or 2 will be better than traditional method (plowing and no cover)
Experiment	
Collect Data	
Evaluate Results	

#### **Check Your Response**

The farmer could set up the experiment to last one year and include all three methods. 10 acres would be set aside for each of the three methods.

- Control group traditional methods (plow and no cover)
- No till
- Cover crop

The farmer would identify three areas within each group where he would measure the topsoil on a monthly basis for the entire year. This way he could get an average for each group each month. He would record the data in a log to review at the end of the year.

Based on the data collected, the farmer would be able to determine which of the three groups saw the least erosion and determine if his hypothesis was correct.

What do you think of the response? Is it a ...

#### 3-Point Response

- Well-formulated, complete controlled experiment
- Well-formulated data collection method
- Well-formulated explanation of evaluation criteria

#### 2-Point Response

- Logical controlled experiment
- Logical data collection method
- Logical evaluation criteria

#### 1-Point Response

- Minimal controlled experiment
- Minimal data collection method
- Minimal explanation of evaluation criteria

#### 0-Point Response

- Illogical or no controlled experiment
- Illogical or no data collection method
- Illogical or no d explanation of evaluation criteria

# **Experimental Design Graphic Organizer**

What do you notice about what you are studying?  What is your question?  What is your hypothesis?  How will you set up your experiment?
What is your hypothesis?
How will you set up your experiment?
How will you set up your experiment?
How will you set up your experiment?
How will you set up your experiment?
Tiow will you set up your experiment:
What are your controlled (things that stay the come) and experimental (one change) veriables?
What are your controlled (things that stay the same) and experimental (one change) variables?
How will you collect your data?
How do you know if your hypothesis is right? If then
Tiow do you know ii your hypothesis is right: ii them
How will you show your results?

Developed by S.J. Schmidt. Appalachian State University. <a href="http://abspd.appstate.edu/teaching-resources">http://abspd.appstate.edu/teaching-resources</a>

# Constructed Response Resources for the Classroom

# **Unpack the Prompt**

Do	What

# **Close Reading Questions**

After they have read the excerpt(s), can your students answer these questions?

- What is the author's argument?
- What position does the author take (for or against)?
- What is one point that supports the author's argument?
- What evidence does the author give to support this point?
- What is the point of view of the author?
- What is one point that refutes the author's point of view?

# **Evaluating What You Have Read**

After reading the article, answer these questions to help you to reflect upon and analyze the article.

	Question	Answer
1.	What is the author's main argument? Use your own words to rearticulate the main idea.	
2.	List and explain the reasons the author provides for his/her main argument.	
3.	What kind of evidence is presented to support the author's argument? Is it fact or opinion or a different type of evidence? What is the source of the information? Does it come from an informed authority in the field?	
4.	What is the purpose and tone of the article?	
5.	Is the author objective or does he/she try to convince the reader to have a certain opinion? If so, what viewpoint does the author use to try and convince you of his/her position?	
6.	Does the author's argument assume that the reader thinks in a particular way or has a particular view? What are the major underlying assumptions that the author makes? Do you think they are reasonable and acceptable to most people?	
7.	Does the author make inferences based on his/her evidence? Is the line of reasoning logical or illogical? Why?	
8.	Does the author try to appeal to the reader's emotions? Does the author use any "loaded" words in the headline or the article? List these words or phrases and explain their effect on the reader.	
9.	Based on what you have read, how has the author persuaded or dissuaded you from his/her viewpoint? Why?	

# **Types of Evidence to Support an Argument**

Evidence isn't the same as <u>proof</u>. "Whereas *evidence* allows for professional judgment, *proof* is absolute and incontestable."

(Denis Hayes, *Learning and Teaching in Primary Schools*, 2009)

#### **Definition of Evidence**

Facts, documentation, or testimony used to strengthen a claim, support an argument, or reach a conclusion.

Type of Evidence	Definition	Samples Supporting an Author's Claim
Factual	Truthful statements that cannot be denied. Statements that the average person may know or which can be proven.	
Statistics or Data	Numerical facts; can be presented in raw numbers, percentages, or fractions.	
Examples or Anecdotes	Real-life situations, events, or experiences that illustrate a position; anecdotal stories that help explain an author's claim.	
Expert Testimony	The observations or conclusions of someone who is considered highly knowledgeable because he/she is an expert in a particular field of study or occupation; someone who has first-hand knowledge and experience.	
Logical Reasoning	An explanation which draws conclusions that the reader can understand; a discussion which helps the reader understand or make sense out of facts or examples offered.	
Emotional Appeal	Use of sympathy, fear, loyalty, etc. to persuade; manipulates the reader's emotions – ethos, pathos, logos	

#### **Sample Completed Organizer: Types of Evidence**

Note: The following graphic organizer shows different types of evidence that was used in Passage 1 - Press Release from the Office of U.S Representative Melody Walls United States House of Representatives, Washington, DC

#### **Example of Types of Evidence**

Claim: While both sides make an acceptable case, Representative Walls provides a stronger argument for the road construction bill because the press release provides more factual and valid evidence.

Type of Evidence	Definition	Samples Supporting an Author's Claim
Factual	Truthful statements that cannot be denied. Statements that the average person may know or which can be proven.	The bill will ease traffic congestion.
Statistics or Data	Numerical facts; can be presented in raw numbers, percentages, or fractions.	A 2001 study in Texas showed that bypasses reduce traffic through towns as much as 75%.
Examples or Anecdotes	Real-life situations, events, or experiences that illustrate a position; anecdotal stories that help explain an author's claim.	held town meetings to gather opinions from her constituents about revitalizing the economy of the 12 <sup>th</sup> District.
Expert Testimony	The observations or conclusions of someone who is considered highly knowledgeable because he/she is an expert in a particular field of study or occupation; someone who has first-hand knowledge and experience.	Some officials anticipated a 30% increase in highway traffic.
Logical Reasoning	An explanation which draws conclusions that the reader can understand; a discussion which helps the reader understand or make sense out of facts or examples offered.	An increase in travelers will attract national motel and restaurant chains along the highway route.
Emotional Appeal	Use of sympathy, fear, loyalty, etc. to persuade; manipulates the reader's emotions – ethos, pathos, logos	Representative Walls heard residents' concerns for jobs in the district.

#### **Sample Completed Organizer: Types of Evidence**

Note: The following graphic organizer shows different types of evidence that was used in Passage 2 - Letter to the Editor

#### **Example of Types of Evidence**

Claim: While both sides make an acceptable case, the letter provides a better-supported argument.

Type of Evidence	Definition	Samples Supporting an Author's Claim
Factual	Truthful statements that cannot be denied. Statements that the average person may know or which can be proven.	the highway will bypass four cities in our district alone.
Statistics or Data	Numerical facts; can be presented in raw numbers, percentages, or fractions.	two manufacturers closed their doors.
Examples or Anecdotes	Real-life situations, events, or experiences that illustrate a position; anecdotal stories that help explain an author's claim.	If this project were paid for with state tax money alone, angry voters would have struck it down.
Expert Testimony	The observations or conclusions of someone who is considered highly knowledgeable because he/she is an expert in a particular field of study or occupation; someone who has first-hand knowledge and experience.	The 2001 study shows they (bypasses) have a negative impact on local businesses.
Logical Reasoning	An explanation which draws conclusions that the reader can understand; a discussion which helps the reader understand or make sense out of facts or examples offered.	There is no guarantee that tourists will drive an extra two miles into our town if national chain motels and restaurants are built at the highway exits.
Emotional Appeal	Use of sympathy, fear, loyalty, etc. to persuade; manipulates the reader's emotions – ethos, pathos, logos	Please consider local concerns about this federal project.

#### **Both Sides Now**

When reading argumentative non-fiction text, materials often present one side or viewpoint on a particular issue. Sometimes, the text may provide evidence to support both sides. Then, it is up to the reader to determine which is best supported. Analyzing and evaluating the evidence for both sides is one way to identify a claim and the reasons for making a specific decision/claim.

Both Sides Now		
Evidence that Supports		Evidence that Opposes
	Overtion on statement	
	Question or statement	
	Which position is better supported?	
Decision (Claim)		
Reasons (Analysis/Evaluat	ion)	

#### **Both Sides Now (Sample Completed Organizer)**

Note: The following graphic organizer shows different types of evidence that was used in "Taxation and Revenue" – Test Bank Item 18101, Stimulus and Prompt

Both Sides Now		
Evidence that Supports		Evidence that Opposes
Will ease traffic congestion		Will bypass town and harm it
Will create jobs		Road paid for with federal funds
Improving highway means jobs for construction	Question or statement	Few residents will use road
workers	Which position regarding	
Will bring more long-	the building of a new road	Will lose money because of
distance travelers to area	is better supported?	bypass
30% increase in traffic that	is better supported:	Construction jobs are only
won't impact city roads	_	temporary
Will attract national motel and restaurant chains		Minimum wage jobs will remain
Will eliminate truck traffic		Highway and bypass four
through city by as much as		cities in one district, so
75%		fewer travelers will stop in the cities
Will reduce road		2001 study shows
maintenance costs		bypasses have negative
		impact on local businesses
Representative held town		Representative did not
meetings		listen to local concerns in her town meetings
Decision (Claim) Dra cida		

#### **Decision (Claim) Pro side**

When comparing the two positions, Representative Walls has the better supported position.

#### Reasons (Analysis/Evaluation) Pro side

The press release provides a stronger argument because it provides more factual and valid evidence instead of opinions.

# **Argumentative Writing Organizers: Pros and Cons**

Question or Statement	
Pros	Cons
(Evidence that Supports)	(Evidence that Opposes)
Decision for a claim:	
Defend your decision:	

# **Constructed Response Graphic Organizer**

Prompt/Question:		
Restatement of question in your own words (unpack it)		
Claim		
Evidence Detailed body of evidence or reasons that support answer — include enough details to answer the question. Make sure all details support the claim and are not off- topic.	Text 1	Text 2
Counterargument(s)	Claim	Rebuttal
Restated question Concluding thoughts		

#### **Constructed Response Organizer**

Introductory Paragraph		
Hook the audience:		
Give a little background on the issue		
Claim:		
Body Paragraph #1 Reason/Evidence/Connection (use as many paragraphs as needed)		
Reason #1		
Evidence, Support and Connection		
Transition		
Transition		
Body Paragraph Counterclaim/Rebuttal		
Counterclaim (Evidence and Support)		
Rebuttal (Evidence, Support, and Connection)		
Transition		
Conclusion Paragraph		
Provide take-away points		
Restate your thesis in different way		
Treatester year. In additional may		

## **Sample Thesis/Claim Frames**

A thesis is an answer to a specific question. A thesis statement makes a claim or proposition that reflects a specific point of view. The thesis statement should recognize both sides of a question, yet focus on two to three specific points (discussion points) sometimes called points of analyses. A thesis statement is the roadmap for the written response. The placement of the thesis statement is generally located in the introduction and summarized in the conclusion of a writing sample.

The general argument made by because	in his/her work	is that
Although		
the clearest evidence		
A key factor in both		d to
When comparing the two positions i clearest evidence that		provides the
Looking at the arguments regarding	, it is clear	that
In discussion of	, one controversial issue believes that e other hand,	
asserts thatis clearly the best supported argume	·	

## How Do You Know? - Frames for Incorporating Evidence

In the article, "	, , , , , , , , , , , , , , , , , , , ,	maintains	s that
· · · · · · · · · · · · · · · · · · ·	's point is that		
's claim rests up	pon the questionable ass	sumption that	
One reason that	maintains tl	he position of	is that
According to the text	t/article/passage/report, _		
	, is is proves/supports that _		
The author states tha	at		
	or/article/research suppor		·
Evamples/data supp	ortina incl	lude	

## **Citing the Evidence**

Question	State	Cite	Explain
This is the question you are directly responding to. If you are writing an essay, you must also use part of the stimulus in your answer so your audience knows what you are talking about.	State the claim - the idea you had about the text.	Cite what in the text led you to that idea.	Explain how each piece of evidence supports your idea.

Question	State	Cite	Explain

## **Connecting Ideas – Using Transitional Words and Phrases**

Transitional words and phrases create a link between your ideas when you are speaking and writing. They help your audience understand the logic of your thoughts. When using transitional words, make sure that it is the right match for what you want to express. Remember, transition words work best when they are connecting two or more strong ideas that are clearly stated. The following is a list of transitional words and phrases that you can use for different purposes.

Add Related Information	Give an Example or Illustrate an Idea	Make Sure Your Thinking is Clearly Understood	Compare Ideas or Show How Ideas Are Similar	Contrast Ideas or Show How They Are Different
<ul> <li>furthermore</li> <li>moreover</li> <li>too</li> <li>also</li> <li>again</li> <li>in addition</li> <li>next</li> <li>further</li> <li>finally</li> <li>and, or, nor</li> </ul> Explain How <ul> <li>One Thing</li> <li>Causes</li> </ul>	<ul> <li>to illustrate</li> <li>to demonstrate</li> <li>specifically</li> <li>for instance</li> <li>as an illustration</li> <li>for example</li> </ul> Explain the Effect or Result of Something	<ul> <li>that is to say</li> <li>in other words</li> <li>to explain</li> <li>i.e., (that is)</li> <li>to clarify</li> <li>to rephrase it</li> <li>to put it another way</li> </ul> Explain Your Purpose	<ul> <li>in the same way</li> <li>by the same token</li> <li>similarly</li> <li>in like manner</li> <li>likewise</li> <li>in similar fashion</li> </ul> List Related Information	<ul> <li>nevertheless</li> <li>but</li> <li>however</li> <li>otherwise</li> <li>on the contrary</li> <li>in contrast</li> <li>on the other hand</li> </ul> Qualify Something
Another	or comeaning			
<ul><li>because</li><li>since</li><li>on account of</li><li>for that reason</li></ul>	<ul> <li>therefore</li> <li>consequently</li> <li>accordingly</li> <li>thus</li> <li>hence</li> <li>as a result</li> </ul>	<ul> <li>in order that</li> <li>so that</li> <li>to that end, to this end</li> <li>for this purpose</li> <li>for this reason</li> </ul>	<ul><li>First, second, third</li><li>First, then, also, finally</li></ul>	<ul> <li>almost</li> <li>nearly</li> <li>probably</li> <li>never</li> <li>always</li> <li>frequently</li> <li>perhaps</li> <li>maybe</li> <li>although</li> </ul>

From Odell Education

# Sentence Structures: Helping Students Discuss, Read, and Write About Texts

Students at all levels struggle to find language that expresses their ideas and helps them achieve their rhetorical purpose. Sentence structures offer a useful means of getting students up and running with academic language through either sentence starters or sentence frames. Both approaches are useful for writing about and discussing different types of texts.

#### **Sentence Starters Sentence Frames** Making Predictions Summarizing I predict that... Readers often assume that.... While many suggest x, others say y.... If x happens, then... Because x did y, I expect z. (Author's name) agrees/disagrees with x, pointing out... **Making Connections** Responding X reminds me of... X claims...which I agree/disagree with X is similar to y because... X is important to y because... • X's point assumes x, which I would argue **Making Inferences** means... X means . . . since x is... While I agree that\_\_\_, you could also say... Early on the author says... which suggests Agreeing Most will agree that... X causes y as a result of... which shows... I agree with those who suggest that... X offers an effective explanation of why y Summarizing happens, which is especially useful because The main (central) idea is... most think that.... The author argues that... In , (author's name) implies... Disagreeing • I would challenge x's point about y, arguing **Evaluating** instead... The author's point is/is not valid because... X claims y, but recent discoveries show this The author does/does not do a good job of... The most important aspect/event/idea is... While *X* suggests *y*, this cannot be true since... **Analyzing the Text** The author uses to show/achieve... Taking the Third Path: Agreeing and The author assumes which is/is Disagreeing not true... While I agree that..., I reject the larger The use of strengthens/weakens argument that...since we now know... the author's argument by... I share X's belief that..., but question...due Most concede *x* though few would agree that *v* is true...

#### Clarifying

- What the author is saying is...
- Given that *x* happened, the author is trying to show...
- X is not \_\_\_\_\_ but is, instead, \_\_\_\_\_ since....

#### **Synthesizing**

- These elements/details, when considered together, suggest...
- Initial impressions suggested x, but after learning \_\_\_\_\_ it is now clear that... It is not a question of x but rather of y because....

#### **Arguing**

- Although x is increasing/decreasing, it is not y but z that is the cause...
- While x is true, I would argue y because of z.
- X was, in the past, the most important factor but y has changed, making it the real cause.

#### **Explaining Importance**

- Based on x, people assumed y, which made sense at the time, but now we realize z, which means....
- This change questions our previous understanding of x, which means that now we must assume...
- While this conclusion appears insignificant, it...
- challenges our current understanding of *x*, which means that...

Sentence starters and frames from: "A Cognitive Strategies Approach to Reading and Writing Instruction for English Learners in Secondary School," by Olson and Land in *Research in the Teaching of English* (Feb 2007) and *They Say/I Say: The Moves that Matter in Academic Writing*, by Graff and Birkenstein (Norton 2006/2010).

## **Revising and Editing Checklist**

Introduction
☐ Does your introduction begin with a sentence that grabs the reader's attention?
☐ Does your paper contain a thesis that is a clear summary of your main point or argument?
☐ Is your thesis arguable? Your thesis should not simply be the statement of a fact because a statement is NOT arguable.
☐ Does your thesis match your assignment? A thesis for a compare-contrast paper is
constructed differently than a thesis for a personal narrative or a research paper.
☐ Is your thesis placed correctly? Normally the thesis should be the last sentence of your introductory paragraph, but it can also appear either as the first sentence or within the first paragraph.
☐ Does your thesis provide a clear outline for the entirety of your paper?
☐ Does your thesis answer a question? Keep in mind, a thesis should never be written as a question.
Body Paragraphs
☐ Does the topic sentence of each body paragraph summarize the entirety of the points that paragraph covers?
☐ Does each topic sentence correspond with your thesis statement?
☐ Does all of the information in your paragraph support your topic sentence?
☐ Is the final sentence in each body paragraph a sentence that either summarizes the
paragraph or transitions to the next point?  □ Do you acknowledge an opposing point of view and then explain why you think it isn't strong
enough to change the point of view selected?
Conclusion
□Does the last paragraph remind readers of the main points of the essay, without going into too much detail repeating everything readers just read?
☐ Is the conclusion free of new information (such as another supporting point)?
☐ Does the last sentence leave readers with a strong final impression?
Entire Paper
General
$\square$ Is the writing in formal, third person?
☐ Does one idea flow smoothly into the next?
☐ Do the sentence structures and lengths vary?
Does every sentence relate to the thesis?
□ Does everything make sense?
☐ Is the essay convincing?
☐ Are the grammar, punctuation, and spelling correct?

5	entence Composition
	Have you removed unnecessary hedges that weaken your arguments such as <i>probably</i> ,
	might be, somewhat, or kind of?
	Have you removed unnecessary words that do not add to the sentence such as <i>really</i> or a <i>lot</i> ?
	Have you varied your vocabulary by utilizing a thesaurus and dictionary when necessary in order to avoid repetition or incorrect word choices?
	Are your sentences of varied lengths and complexities? A paper is stronger when it has a mixture of sentences versus all short sentences or all long sentences.
	Are all transitions from one idea to another smooth and clearly explained, so the reader does not need to make any leaps in logic?
	Has all slang and conversational language been removed?
	Have you removed any offensive language, such as gender-based or biased language?
V	erbs
	Do your verb tenses match?
	Are your verb tenses consistent?
	Have you replaced unnecessary "to be" verbs (be, been, is, are, were, was) with stronger verbs?
	Are you using "active" verbs?
ln	tegration of Information
	Are all of your quotes and paraphrases correctly cited?
	Are all of your quotes introduced and explained properly?
	Is all of your information, such as quotes and data, pertinent to your topic? Does your
	information correspond with the topic sentence of your current paragraph?
G	rammar and Mechanics
	Have you used parallel structure?
	Do your pronouns agree with the antecedents they are replacing?
	Is your paper free of fragments and run-on sentences?
	Is your paper properly punctuated?
	Is your paper free of spelling errors?
	Have you read through your paper (slowly) in order to catch errors that you would miss otherwise?

# **Science Short Answers**

## **Science Narrative Response - Analyze the Prompt**

Underline the verb. Determine action to be completed. Complete the chart.

What

## **Science Narrative Response - Analyze the Source Text**

Reminder – List key words from the prompt.	
Identify relationships within the text.	
Identify evidence that supports the claim made in the text.	

## **Preparing the Response**

Steps in Scientific Method	What text tells you	
Observe	Topsoil is about 20 centimeters in thickness.	
	Farmer knows two method to reduce soil erosion	
	4) Not till	
	5) Winter cover crop 6)	
Hypothesize	Believes either method 1 or 2 will be better than traditional method (plowing and no cover)	
Experiment		
Collect Data		
Evaluate Results		

## **Experimental Design Graphic Organizer**

What do you notice about what you are studying?
What is your question?
What is your hypothesis?
How will you set up your experiment?
What are your controlled (things that stay the same) and experimental (one change) variables?
How will you collect your data?
How do you know if your hypothesis is right? If then
How will you show your results?

Developed by S.J. Schmidt. Appalachian State University. <a href="http://abspd.appstate.edu/teaching-resources">http://abspd.appstate.edu/teaching-resources</a>

#### **Science Experimental Design Practice**

## 11 Questions you can turn into <u>simple, low-cost</u> experiments to teach experimental design:

- 1. Does adding aspirin to water keep flowers fresh longer?
- 2. How does the height from which a ping-pong ball is dropped affect the bounce height?
- 3. Which type of cup is a better insulator (Styrofoam, Thermos®, plastic, etc.)? Compare temperatures of hot water over time.
- 4. How does activity (lying, sitting, walking, running) affect pulse rate?
- 5. Which color of M&M's will people choose from a bowl or will they care? (This requires you to have an even number of each color of M&M evenly mixed in the bowl and not to tell the test subjects what you're testing.)
- 6. Compare how moldy a slice of bread will get over time under different storage conditions (in a plastic bag, left out, in a paper bag, etc.).
- 7. Compare how long it will take water to evaporate out of different shaped containers.
- 8. Roll a marble or a car down a ramp. How does the height of the ramp affect how far it goes? (This can also be set up to test how the rolling surface affects distance rolled if height remains the same and rolling surface is changed.)
- 9. How does the temperature of water affect how quickly it will dissolve an Alka Seltzer?
- 10. Does the size of a coin affect how long you can spin it on its edge before it falls? (Compare dime, penny, nickel, quarter, dollar coin). (This is a great activity to discuss the challenges in doing controlled experiments. How can we make sure the spin is the same each time?)

11. Which shape of paper falls fastest: An unfolded sheet of paper, a paper folded in fourths, or a sheet of crumpled paper? Or can you create a different shape with paper that falls even faster?

For each of these, identify:

- A. Hypothesis
- B. Many controlled variables
- C. 1 Experimental (changed) variable
- D. How you will collect data
- E. How data will be evaluated

GED Science Short Answer Guide: Understanding the GED Science Short Answer and Helping Students Prepare. Steve Schmidt. <a href="mailto:schmidtsj@appstate.edu">schmidtsj@appstate.edu</a> or <a href="mailto:http://abspd.appstate.edu">http://abspd.appstate.edu</a>

Scientific Experimental Design Practice activities developed by Source: 1 – 10 Jeff Goodman, Appalachian State University, 11 Goonen and Pittman

#### **RLA Resources from the World Wide Web**

**National Council for Teachers of English.** This site provides lessons and strategies for teaching nonfiction text. <a href="http://www.ncte.org/">http://www.ncte.org/</a>

**Newsela**. A site with nonfiction articles available in 4-5 different Lexile Levels with many of them providing a quiz that is aligned to a specific anchor standard. It is necessary to sign up for the free account to see the different level of articles. https://newsela.com/

**PBS Teacher Source**. Lesson plans and lots of activities are included in the teacher section of PBS. http://www.pbslearningmedia.org/

**ProCon.org**. A website that provides both sides of the argument. Useful for use in teaching argumentative writing. <a href="http://www.procon.org/">http://www.procon.org/</a>

**Purdue University's OWL.** One of the most extensive collections of advice about writing found on the web. <a href="https://owl.english.purdue.edu/">https://owl.english.purdue.edu/</a>

**ReadWorks.org.** Written for the K-12 program, many of these nonfiction texts and lessons are usable in the adult basic education program. <a href="http://www.readworks.org/">http://www.readworks.org/</a>

**ReadWriteThink**. From the International Reading Association and the National Council of Teachers of English, this site has great resources. http://www.readwritethink.org/

**Teach 4 Results.** A list of resources for teaching the writing process. <a href="http://iteach4results.wikispaces.com/">http://iteach4results.wikispaces.com/<a href="http://www.wikispaces.com/">Writing</a>

**Teaching That Makes Sense.** A K-12 site with lots of free resources and graphic organizers from Steve Peha. http://ttms.org/

**The Writing Studio – Colorado State University.** A step-by-step guide for argumentative writing. http://writing.colostate.edu/guides/guide.cfm?guideid=58

**Tools for Teachers:** Engaging in Academic Writing. Resources from the Aspen Institute. http://www.aspendrl.org/portal/browse/CategoryList?categoryId=281

**Writing Fix.** Lessons and strategies on how to teach different types of writing skills, including constructed responses and RAFTS. <a href="http://writingfix.com/rica/constructed\_response.htm">http://writingfix.com/rica/constructed\_response.htm</a>

**Writer's Web.** Materials from the University of Richmond's Writing Center. http://writing2.richmond.edu/writing/wweb.html

#### Stay in Touch!

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- "Tuesdays for Teachers" archived webinars

  <a href="http://www.gedtestingservice.com/educators/exploring-the-2014-ged-test-webinar-archive">http://www.gedtestingservice.com/educators/exploring-the-2014-ged-test-webinar-archive</a>

# **Key Concepts of Making Thinking Visible**

#### Six Key Principles of the Cultures of Thinking Project

- 1. Skills are not sufficient; we must also have the disposition to use them. Possessing thinking skills and abilities alone is insufficient for good thinking. One must also have the disposition to use those abilities. This means schools must develop students' inclination to think and awareness of occasions for thinking as well as their thinking skills and abilities. Having a disposition toward thinking enhances the likelihood that one can effectively use one's abilities in new situations.
- 2. The development of thinking and understanding is fundamentally a social endeavor, taking place in a cultural context and occurring within the constant interplay between the group and the individual. Social situations that provide experience in communicating one's own thinking as well as opportunities to understand others' thinking enhance individual thinking.
- 3. The culture of the classroom teaches. It not only sets a tone for learning, but also determines what gets learned. The messages sent through the culture of the classroom communicate to students what it means to think and learn well. These messages are a curriculum in themselves, teaching students how to learn and ways of thinking.
- 4. As educators, we must strive to make students thinking visible. It is only by making thinking visible that we can begin to understand both what and how our students are learning. Under normal conditions, a student's thinking is invisible to other students, the teacher, and even to him/herself, because people often think with little awareness of how they think. By using structures, routines, probing questions, and documentation we can make students' thinking more visible toward fostering better thinking and learning.
- 5. Good thinking utilizes a variety of resources and is facilitated by the use of external tools to "download" or "distribute" one's thinking. Papers, logs, computers, conversation, and various means of recording and keeping track of ideas and thoughts free the mind up to engage in new and deeper thinking.
- 6. For classrooms to be cultures of thinking for students, schools must be cultures of thinking for teachers. The development of a professional community in which deep and rich discussions of teaching, learning, and thinking are a fundamental part of teachers' ongoing experience provides the foundation for nurturing students' thinking and learning.

Cultures of Thinking Project, Project Zero, Harvard Graduate School of Education Ron Ritchhart & David Perkins Co-Principal Investigators

### **Defining Thinking Routines**

Tools used over and over again in the classroom, that support specific thinking moves such as,

#### Making connections

- · Describing what's there
- Building explanations
- Considering different viewpoints and perspectives
- · Capturing the heart and forming conclusions
- Reasoning with evidence

Structures, through which students collectively as well as individually initiate, explore, discuss, document, and manage their thinking. These structures are:

- Explicit: They have names to identify them
- Instrumental: They are goal directed and purposeful
- A few steps: Easy to learn, and easy to remember
- Individual as well as group practices
- Useful across a variety of contexts
- Help to reveal students' thinking and make more visible

Patterns of behavior adopted to help one use the mind to form thoughts, reason, or reflect. We see these patterns emerging as the routines:

- Are used over and over
- Become engrained in us both teachers and students
- Flexibility emerges

From Ritchhart et al, 2006